MULTIMEDIA UNIVERSITY

STUDENT ID NO

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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2017/2018

DCS5288 – INTERNET AND WEB PUBLISHING

(All IT Groups)

3 MARCH 2018
2.30 p.m. – 4.30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENT:

1. This question paper consists of 13 pages with 2 sections.
2. **SECTION A**: Answer **ALL** Multiple Choice Questions on the OMR sheet given.
3. **SECTION B**: Answer **ALL** Structured Questions in the Answer Booklet provided.

SECTION A (20 Marks)

Instruction: *Answer ALL questions from this section and shade your answers on the OMR sheet provided.*

1. Which of the following application layer protocols is used to transfer and store emails?

   A. SSH
   B. HTTP
   C. POP/IMAP
   D. DNS

2. Based on the Uniform Resource Locator (URL) shown below, what does *X* refer to?

   `http://www.website.com/cart_view.php?uid=257#section`

   X

   A. Domain
   B. Protocol
   C. Path
   D. Query string

3. Which of the following statements is **FALSE** about circuit switching communication?

   A. A link needs to be established and a dedicated circuit is needed for the duration of the communication.
   B. Having multiple conversations simultaneously is easy and efficient.
   C. Bandwidth is wasted.
   D. Uses network resources in a very inefficient way.

4. In a four-layer network model, the _____ layer handles issues such as packet creation, transmission, reception and error detection, collisions and line sharing.

   A. Application
   B. Transport
   C. Internet
   D. Data Link

5. The following attributes are part of a hyperlink **EXCEPT**:

   A. group
   B. target
   C. href
   D. download

Continued...

6. A non header cell or column can be added into a table by using the _____ tag.

   A. <td> </td>
   B. <tc> </tc>
   C. <th> </th>
   D. <tr> </tr>

7. An input field which uses the _____ attribute is unusable, un-clickable and its value will not be sent when the form is submitted.

   A. readonly
   B. hidden
   C. disabled
   D. inactive

8. What will the following code produce?

```
<input type="date" name="birthday" max="1979-12-31" />
```

   A. The calendar will display only the month of December of year 1979.
   B. The calendar will display only the dates from the year 1979.
   C. The calendar will display dates which is on 31/12/1979 or before it.
   D. This code has errors.

9. Which of the following is **FALSE** about using `@font-face` rule in CSS?

   A. It allows web designers to not have to use one of the "web-safe" fonts.
   B. A name must be first defined for the font and then point to the font file.
   C. It is supported by all the major browsers.
   D. It is used to set the style of the font found in the user's computer.

10. In CSS the shorthand property for border is written as `border: X Y Z;`. What is *Y* referring to?

    A. The width of the border.
    B. The style of the border.
    C. The colour of the border.
    D. The thickness of the border.

11. To change the font colour to red when going over each row of a table, which of the following CSS codes can be used?

    A. tr:over{color:red}
    B. td:hover{color:red}
    C. tr:hover{color:red}
    D. table:hover{color:red}

Continued...

12. All of the following are advantages of using CSS **EXCEPT**:

A. It offers consistency by utilizing a global style sheet.
B. Usage of CSS reduces the amount of lines of programming for each page, which makes a website faster.
C. Maintenance becomes easier as making improvements or changing a few lines will not involve going through the whole website.
D. Not all of the codes renders well in multiple browsers.

13. JavaScript codes are designed to _____.

A. style HTML pages to make it look more attractive.
B. perform server side scripting operations.
C. execute database related queries.
D. add interactivity in web pages.

14. Given the following code segment in JavaScript, what will be the output shown once it finishes execution?

```
var codes, content="", aLen=0;
codes = ["DCS5078","DCS5288"];
codes[4] = "DCS5038";

aLen = codes.length;
for (i = 0; i < aLen; i++) {
    content += codes[i] + " - ";
}
document.write(content);
```

A. DCS5078 - DCS5288 - DCS5038 -
B. DCS5078 - DCS5288 - undefined - undefined - DCS5038 -
C. DCS5078 - DCS5288 - 0 - 0 - DCS5038 -
D. This code segment has errors and cannot be executed.

15. Which of the following can be used to refresh a page in JavaScript?

A. location.reload();
B. location.refresh();
C. location.restart();
D. location.redo();

16. In JavaScript, when you require the user to key in a value without using a form, which of the following is the most suitable to be used?

A. confirm();
B. prompt();
C. alert();
D. parseInt();

Continued...

17. The _____ is a super global variable that returns the filename of the currently executing script.

    A. $_SERVER["PHP_SELF"]
    B. $_POST[]
    C. $_GET[]
    D. $_FILE_NAME["PAGE"];

18. Which style of date will be displayed on the browser if the code is executed as `echo date("D/M/Y");` in PHP?

    A. Fri/Oct/2017
    B. 27/10/17
    C. 27/10/2017
    D. Fri/10/17

19. The _____ attribute specifies where to send the form-data when a form is submitted in PHP.

    A. name
    B. value
    C. method
    D. action

20. A session in PHP can be described as all of the following **EXCEPT**:

    A. Used to store information (in variables) to be used across multiple pages.
    B. Can be removed using the `session_destroy()` function.
    C. Allows variables to be set with the PHP global variable $SESSION.
    D. Must be first started by calling the `session_start()` function.

Continued...

SECTION B (80 Marks)

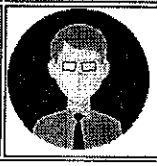
Instruction: *Answer ALL questions from this section in the Answer Booklet provided.*

Question 1 – HTML (20 Marks)

(a) Write the HTML codes for the table shown below. [10 marks]

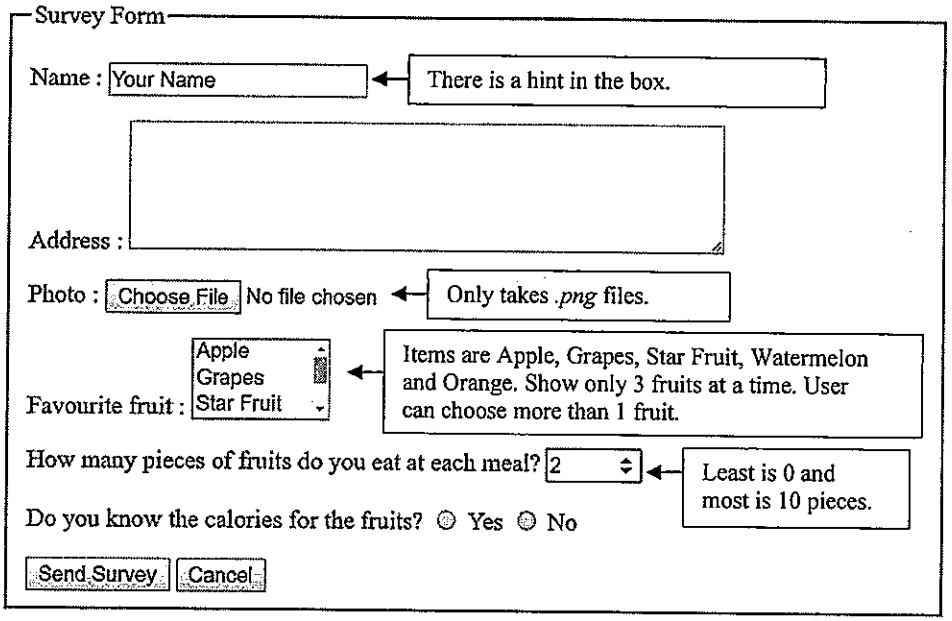
- The table width is *600px*.
- The table title is "*Staff Details*".
- The image for the first row is *ali.png* and the other is *jackson.png*.
- The last paragraph has smaller sized fonts.

Staff Details

Staff No.	Staff Photo	Staff Name / Staff Position		Reports To
10039		Ali bin Hassan Lecturer	5 years experience.	Dr. James Dean
10058		Jackson Lee Senior Lecturer	3 years experience.	

The details are correct at the time of publish.

(b) Write the HTML codes for the form shown below. [10 marks]


Survey Form
Name : Your Name
There is a hint in the box.
Address :
Photo : Choose File No file chosen
Only takes .png files.
Favourite fruit : Apple Grapes Star Fruit
Items are Apple, Grapes, Star Fruit, Watermelon and Orange. Show only 3 fruits at a time. User can choose more than 1 fruit.
How many pieces of fruits do you eat at each meal? 2
Least is 0 and most is 10 pieces.
Do you know the calories for the fruits? Yes No
Send Survey
Cancel

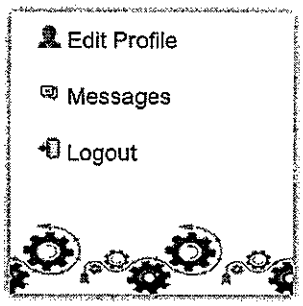
Continued...

Question 2 – CSS (20 Marks)

(a) Write the External CSS codes based on the given HTML codes. [8 marks]

```
<div>
     <ul>
          <li class="profile">Edit Profile</li>
          <li class="messages">Messages</a></li>
          <li class="logout">Logout</li>
     </ul>
</div>
```

- The container:
  - The width and height is 200px.
  - The shadow has a spread of 10px and the colour is #BBB.
  - The is located at the center of the webpage.
  - Set a background image *technology.png* which is stored in a folder named *image*. Set the image size to 100px in length and 50px in height. The image is repeated horizontally at the bottom.
- The list:
  - Font used is Arial and each line has a height of 40px.
- The list item on mouseover:
  - The font colour changes to red.
- Each list item image comes from a folder named *image*. The image names are *profile.png*, *messages.png* and *logout.png*.



(b) Write the Internal CSS codes based on the given HTML codes. [12 marks]

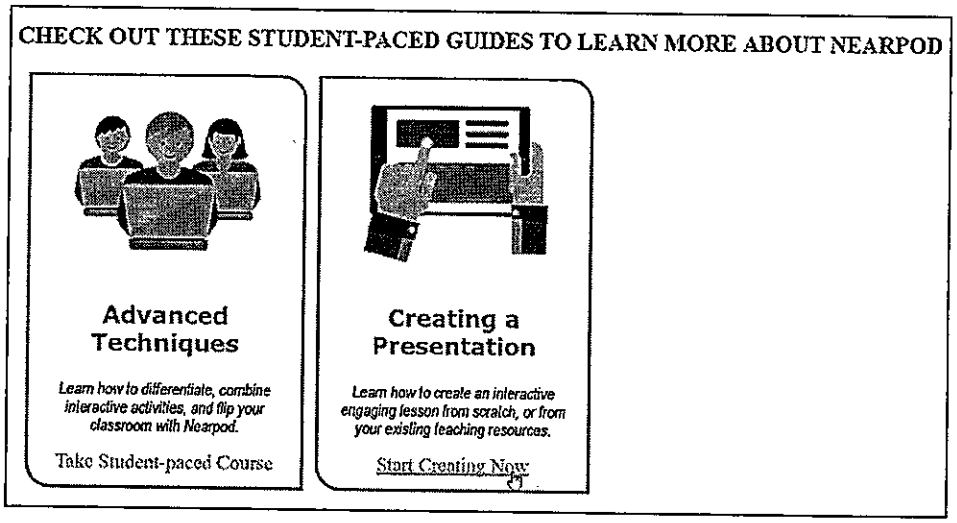
```
<h3>Check out these Student-paced guides to learn more about
Nearpod</h3>

<div class="box">
     <img src="https://cdn.nearpod.com/icon-started.svg" />
     <h3>Advanced Techniques</h3>
     <p>Learn how to differentiate, combine interactive activities,
        and flip your classroom with Nearpod.</p>
     <a href="#" id="links">Take Student-paced Course</a>
</div>
```

Continued...

```
<div class="box">
     <img src="https://cdn.nearpod.com/icon-presentation.svg" />
     <h3>Creating a Presentation</h3>
     <p>Learn how to create an interactive engaging lesson from
     scratch, or from your existing teaching resources.</p>
     <a href="#" id="links">Start Creating Now</a>
</div>
```

- Heading level 3:
  - Displayed as capital letters.
- Class *box*:
  - The width is 200px.
  - Set a padding of 10px.
  - Boxes are separated by a 10px space.
  - The borders are 2px thick, blue and solid.
  - The top right and bottom left corners are rounded by 20px.
  - Contents in the box is center aligned.
- Image inside class *box*:
  - Width and height is 150px.
- Heading level 3 inside class *box*:
  - The font is Verdana and the colour is red. The text is of normal fonts and not in capital letters.
- Paragraph inside class *box*:
  - The font is Arial Narrow and italic.
  - The size is 10pt.
- The hyperlinks in class *box* (Use ID):
  - The colour is orange without any underline.
  - On mouseover the text will be underlined.


CHECK OUT THESE STUDENT-PACED GUIDES TO LEARN MORE ABOUT NEARPOD
Advanced Techniques
Learn how to differentiate, combine interactive activities, and flip your classroom with Nearpod.
Take Student-paced Course
Creating a Presentation
Learn how to create an interactive engaging lesson from scratch, or from your existing teaching resources.
Start Creating Now

Continued...

Question 3 – JAVASCRIPT (20 Marks)

(a) Write the JavaScript codes for the *get_total()* function that displays the amount to be paid for the purchase of an ice-cream cone. [10 marks]

- A form named "*form1*" has the following elements.

```
<p>
<input type="checkbox" name="addon" value="SS" onclick="get_total();">
Strawberry Sauce (RM 1.00)
<input type="checkbox" name="addon" value="PN" onclick="get_total();">
Peanuts (RM 0.30)
<input type="checkbox" name="addon" value="CC" onclick="get_total();">
Chocolate Chips (RM 0.80)
<input type="checkbox" name="addon" value="SC" onclick="get_total();">
Salty Caramel (RM 0.50)
</p>

<p>Total : RM <span id="total">3.50</span><p>
<p>Choice of Toppings : <br><span id="topping">No Toppings
Chosen</span><p>
```

- In function *get_total()*:
  - Declare all the variables used in the program.
  - Using a *for* loop:
    - Identify whether each checkbox is checked.
    - If the checkbox is checked, add the topping code into an array.
  - Using another *for* loop:
    - Use a *switch case* statement to get each topping code from the array and identify the name and price.
    - Write a formula so that the total payment can be calculated.
  - Display the total payment and the selected toppings as shown in the sample output.

SAMPLE OUTPUT

- If no toppings were chosen, the total will be the standard ice-cream price which is RM3.50.

Standard Price : RM 3.50

Add Toppings?

☐ Strawberry Sauce (RM 1.00)
☐ Peanuts (RM 0.30)
☐ Chocolate Chips (RM 0.80)
☐ Salty Caramel (RM 0.50)

Total : RM 3.50

Choice of Toppings :
No Toppings Chosen

Continued...

- If the toppings were chosen, the total with the addition of the topping prices will be displayed. The chosen topping names will also be displayed.

Standard Price : RM 3.50

Add Toppings?

☑ Strawberry Sauce (RM 1.00)
☑ Peanuts (RM 0.30)
☑ Chocolate Chips (RM 0.80)
☑ Salty Caramel (RM 0.50)

Total : RM 6.10

Choice of Toppings :
Strawberry Sauce
Peanuts
Chocolate Chips
Salty Caramel

- If the check boxes are removed, the price will be decreased.

Standard Price : RM 3.50

Add Toppings?

☐ Strawberry Sauce (RM 1.00)
☑ Peanuts (RM 0.30)
☐ Chocolate Chips (RM 0.80)
☑ Salty Caramel (RM 0.50)

Total : RM 4.30

Choice of Toppings :
Peanuts
Salty Caramel

(b) Write the JavaScript codes based on the guidelines given below. [10 marks]

- In function *start()*:
  - Declare all the variables used in this function.
  - Ask how many times the user wants to roll the dice using a prompt box.
  - Use a *while* loop to make sure that the number of rolls must be from 1 to 10 only. If other values are inserted, ask the user to re-enter the value.
  - Ask the user which number to search for based on the numbers on the dice using a prompt box.
  - Use a *while* loop to make sure that the number that is searched for must be from 1 to 6 only. If other values are inserted, ask the user to re-enter the value.

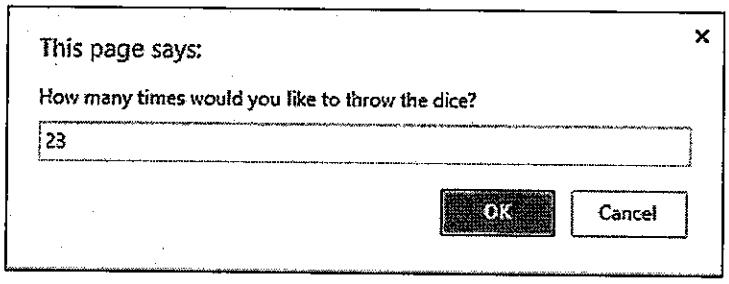
Continued...

- Next, call function *display(...)* and pass the number of times to roll and the number that is searched for.

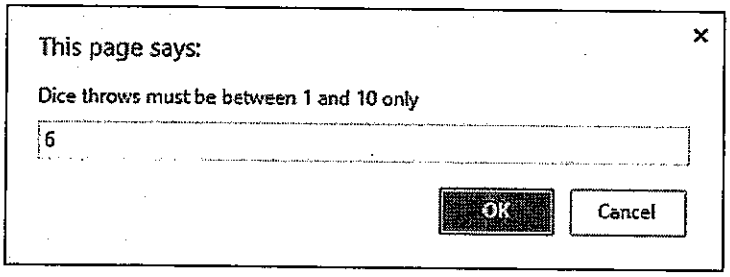
- In function *display(...)*:
  - Declare all the variables in this function.
  - Use a *while* loop to get random numbers based on the number of rolls that is required.
  - Keep track of how many of the random number matches the searched number.
  - Display the output as shown below.

SAMPLE OUTPUT

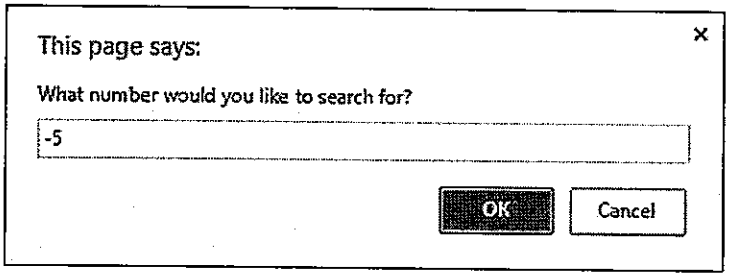
- Ask the user how many times to roll the dice.



- If the value entered is not from 1 to 10, ask the user to re-enter the value.

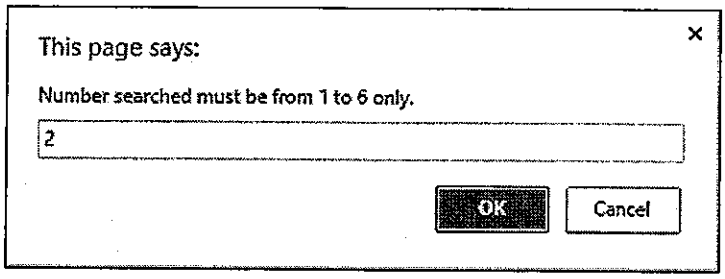


- Ask the use to enter the number to search.

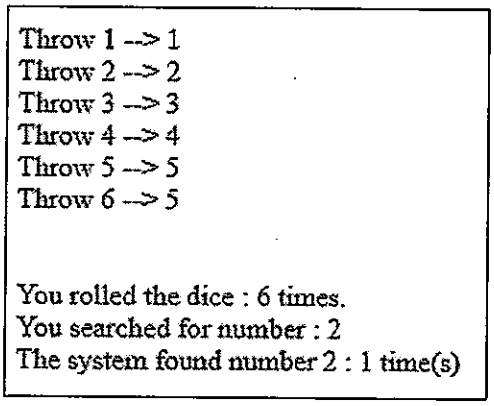


Continued...

- If the number entered is not from 1 to 6, ask the user to re-enter the number.



- If all values are entered correctly, the following output is displayed.


Throw 1 --> 1
Throw 2 --> 2
Throw 3 --> 3
Throw 4 --> 4
Throw 5 --> 5
Throw 6 --> 5
You rolled the dice : 6 times.
You searched for number : 2
The system found number 2 : 1 time(s)

Continued...

Question 4 – PHP (20 Marks)

The scenario given below shows how a user can write comments and give ratings on the hotels that they have stayed in.

Table : Hotel

Hotel_ID	Hotel_Name	Hotel_Star
H1	Hotel Continental Penang	3
H2	Sunway Hotel Georgetown	4
H3	Royal Hotel	4
H4	Hotel Central Seaview	3

Table : Feedback

Feedback_ID	Feedback_Date	Feedback_Customer	Feedback_Rating	Feedback_Comment	Hotel_ID
1	2017-05-16	Ali	3	Quite good for the price.	H2
2	2017-07-11	James	3	OK...but the toilet was smelly.	H2
3	2017-10-30	Mary Anne	1	Wasted my money	H4
4	2017-10-30	Cathy	5	Fantastic! Value for money.	H2
5	2017-10-30	Ahmad	2	This hotel is bad!	H4

(a) Write the PHP codes for the *view.php* page which displays the records as shown below. [13 marks]

- The data is retrieved from both tables.
- If no records are found for the particular hotel, display "*No Comment or Ratings Found*".
- The hyperlink links to the *give_comment.php* page that brings along the Hotel ID.
- Calculate the average rating based on the rating given by the user.

Hotel Name	Hotel Star	Comments and Ratings	Average Rating	Give Feedback
Hotel Continental Penang	3	No Comment or Ratings Found	0.0	Give Comments and Rating
Sunway Hotel Georgetown	4	2017-05-16 -- Ali -- Quite good for the price. -- 3.0 2017-07-11 -- James -- OK...but the toilet was smelly. -- 3.0 2017-10-30 -- Cathy -- Fantastic! Value for money. -- 5.0	3.7	Give Comments and Rating
Royal Hotel	4	No Comment or Ratings Found	0.0	Give Comments and Rating
Hotel Central Seaview	3	2017-10-30 -- Mary Anne -- Wasted my money -- 1.0 2017-10-30 -- Ahmad -- This hotel is bad! -- 2.0	1.5	Give Comments and Rating

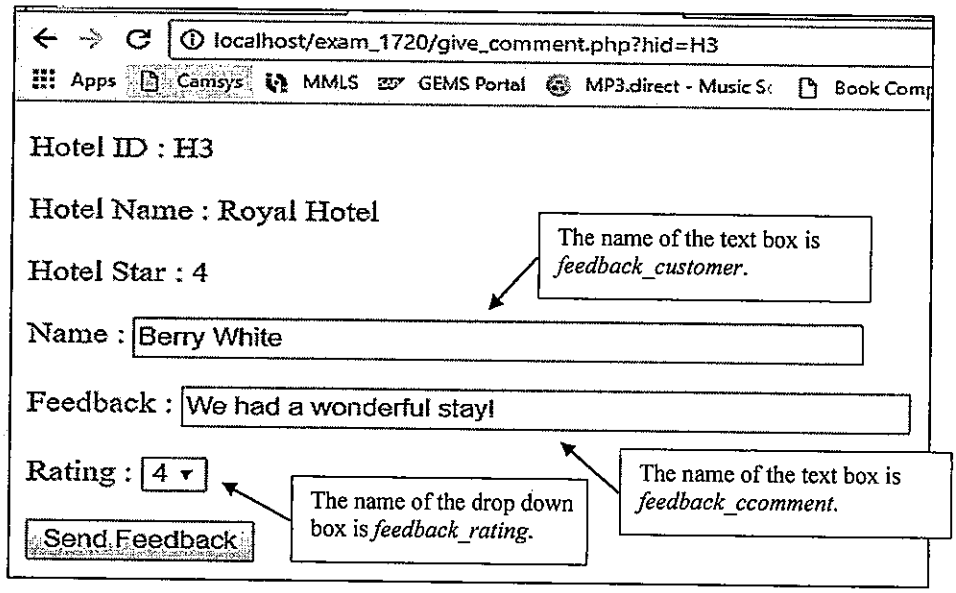
Feedback_Date, Feedback_Customer, Feedback_Comment and Feedback_Rating

Continued...

(b) Based on question (a), write the codes for the *give_comment.php* page.

[7 marks]

- The page should display the hotel that is currently selected to be given comments and rating. (This is identified from the *view.php* page.)
- A form is provided which uses the *post* method.
- The form elements are named as *feedback_customer*, *feedback_comment* and *feedback_rating*. The button name is *sendbtn*.
- Insert the user's data into the *feedback* table and redirect the user to the *view.php* page to see the changes.



Hotel Name	Hotel Star	Comments and Ratings	Average Rating	Give Feedback
Hotel Continental Penang	3	No Comment or Ratings Found	0.0	Give Comments and Rating
Sunway Hotel Georgetown	4	2017-05-16 -- Ali -- Quite good for the price. -- 3.0 2017-07-11 -- James -- OK...but the toilet was smelly. -- 3.0 2017-10-30 -- Cathy -- Fantastic! Value for money. -- 5.0	3.7	Give Comments and Rating
Royal Hotel	4	2018-02-02 -- Berry White -- We had a wonderful stay! -- 4.0	4.0	Give Comments and Rating
Hotel Central Seaview	3	2017-10-30 -- Mary Anne -- Wasted my money -- 1.0 2017-10-30 -- Ahmad -- This hotel is bad! -- 2.0	1.5	Give Comments and Rating

End of Page.